

OE information for restart of the Sendai nuclear power station

August 21, 2015

Kyushu Electric Power Company

Sendai Unit 1: Postponement of further load up (Electric conductivity rises around the condensate pump outlet)

The Sendai Unit 1 restarted generating electricity on Aug 14, 2015, and is currently operating at 75% electric power. At 14:19, Aug 20, an alarm was activated to notify “Electric conductivity high/low” around the outlet of the condensate pump carrying the secondary system coolant which does not include radioactive substance. This event is categorized as Alarm level 1, “parameter fluctuation”.

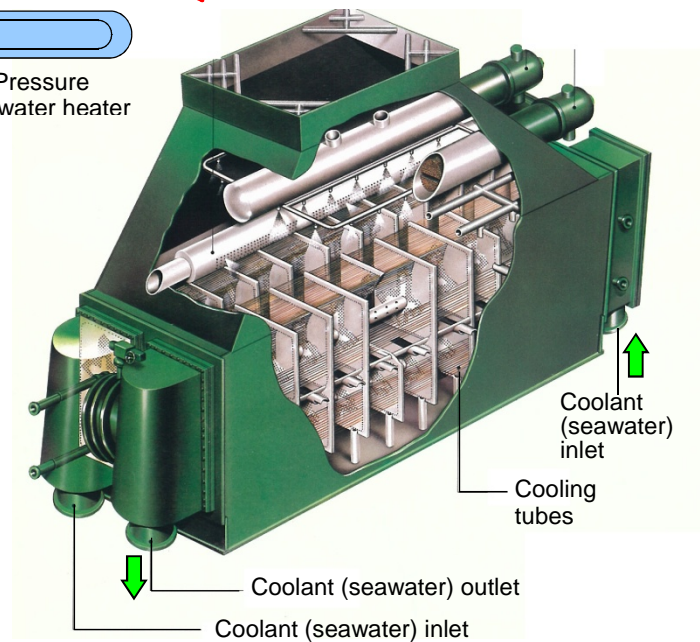
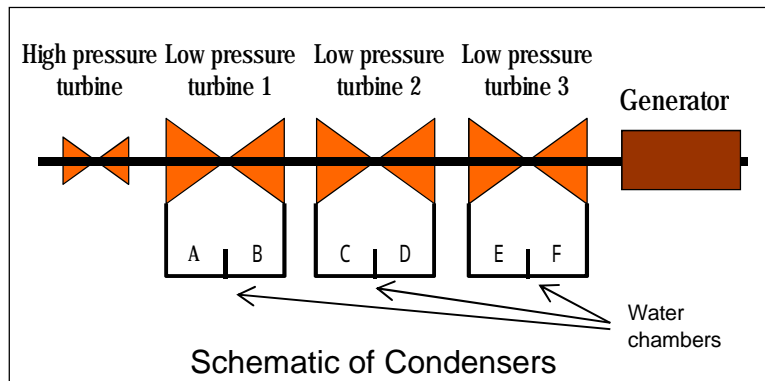
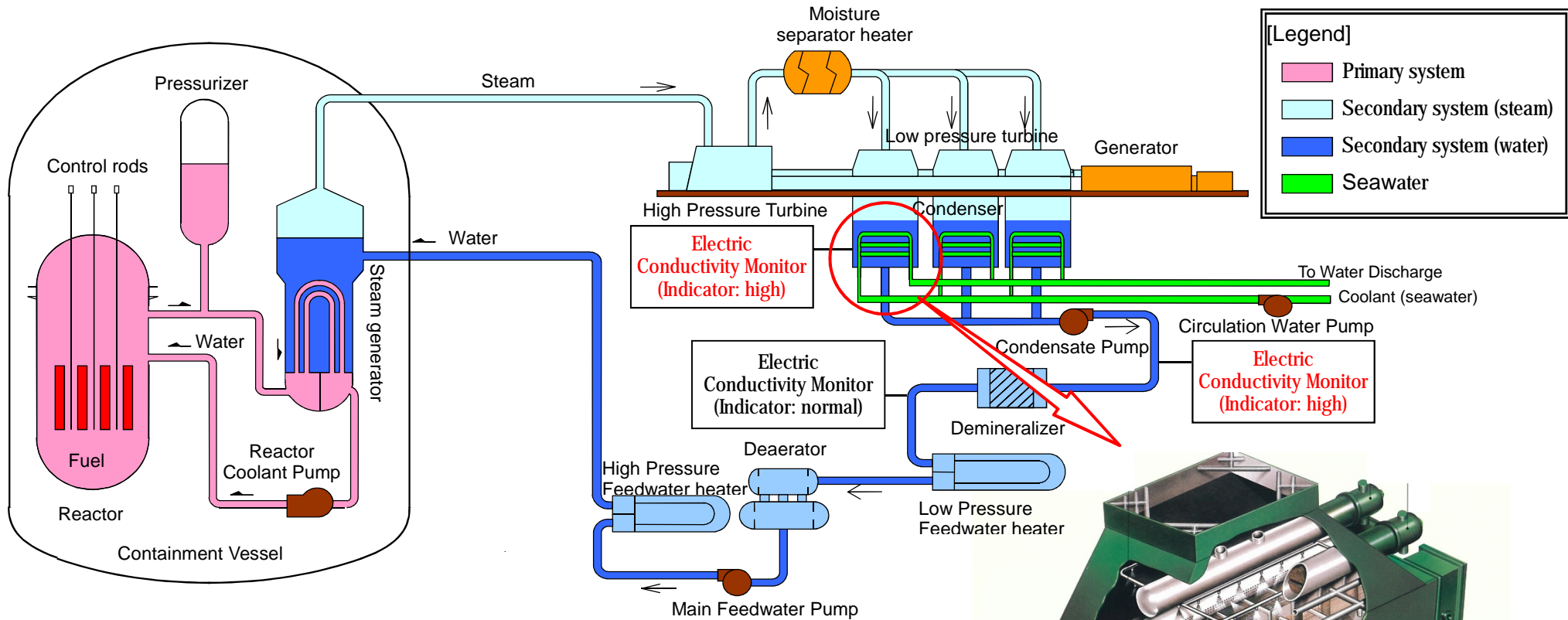
Kyushu Epco investigated relevant components and water chemistry and made an assumption that a slight amount of seawater is included. The salt content is being removed by the condensate demineralizer and there is no problem for the plant to continue operation.

In order to make extra sure the future operation will be even safer, Kyushu Epco has decided to postpone further load up which was scheduled today and to conduct careful and extensive inspections of the equipment. The electric output will be maintained as 75% during inspections.

There is no radioactive influence to the environment due to this event.

(Translated by JANSI)

Schematic view of the Sendai Nuclear Power Plant



Structure of condenser

Terminology (Alarm level)

“Alarm level 1”

Kyushu Epco previously identified a set of events which may occur during restart operations along with their individual countermeasures. The events are categorized into five levels from Level 0 to Level 4 depending on the scale of impact on the plant operation.

- Level 0: Emission of Alarm which can occur during normal activities
(Mishandling of switches/levers in the control room)
- Level 1: Emission of Alarm which requires enhanced monitoring of components which caused the event to happen
(Parameter fluctuation)
- Level 2: Events which requires measures to be taken but do not affect the restart process
(Malfunction of components)
- Level 3: Events which requires the grid to be disconnected (or load down)
[Events related to the secondary system]
- Level 4: Events which requires the reactor operation to stop
[Events related to the primary system]